

Comet on a Stick

National Science Education Standards addressed:

Grades K–4

Science as Inquiry:

- Ask a question about objects, organisms, and events in the environment
- Plan and conduct a simple investigation
- Use data to construct a reasonable explanation
- Communicate investigations and explanations

Earth and Space Science:

Changes in the Earth and Sky

- Objects in the sky have patterns of movement

Grades 5-8

Science as Inquiry:

- Identify questions that can be answered through scientific investigations
- Think critically and logically to make the relationships between evidence explanations
- Develop descriptions, explanations, predictions and models using evidence
- Recognize and analyze alternative explanations and predictions

Earth and Space Science:

Earth in the Solar System

- The Earth is the third planet from the sun in a system that includes the moon, the sun, eight other planets and their moons, and smaller objects, such as asteroids and comets
- Most objects in the solar system are in regular and predictable motion

AAAS Atlas Concept Map:

Grades 3-5

Scientific Inquiry: Scientific Investigations

Scientific Investigations may take many different forms, including observing what things are like or **what is happening somewhere**, collecting specimens for analysis, and doing experiments.

Grade 3-5

Scientific Inquiry: Evidence and Reasoning in Inquiry

Offer reasons for their findings and consider reasons suggested by others.

Grade 6-8

The Universe: The Solar System

...Other chunks of rock mixed with ice have long, off-center orbits that carry them close to the sun, where the sun's radiation (of light and particles) boils off frozen materials from their surfaces and pushes it into a long illuminated tail.